



I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Kathi Howard 04-26-06
Kathi Howard Date

CGC

Certificate
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of Correction

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.: 09/710,718
Filed: November 10, 2000
Patent No.: 6,970,415
Issued: November 29, 2005
Applicant(s): Cecilia Gabriela Galarza, et al.
Title: METHOD AND APPARATUS FOR CHARACTERIZATION OF DISTURBERS IN COMMUNICATION SYSTEMS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

ATTN: DECISION AND CERTIFICATE OF CORRECTION
BRANCH OF THE PATENT ISSUE DIVISION

**REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT
FOR PTO MISTAKE (37 CFR §1.322 (a))**

Sir:

Attached in duplicate form, is Form PTO-1050, with at least one copy being suitable for printing. The errors below and on Form PTO-1050 were typographical errors which occurred through the fault of the U.S. Patent and Trademark Office ("PTO"), and correction thereof does not involve such changes in the patent as would constitute new matter or would require reexamination.

The exact column and line number where the errors are shown in the patent are as follows:

MAY 04 2006

Column 7, Equation (4) reads “ $y_{pam}(n) = y_{pam}(t)|_{t=nT_s} = \sum_j y_j(n)$ ” and should read
 $- y_{pam}(n) = y_{pam}(t)|_{t=nT_s} = \sum_j y_j(n) -$.

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Column 11, lines 10-11 read “...assume that for each disturber type the standard specifies f_i possible nominal frequencies then the set F defined as...” and should read – ...assume that for each disturber type the standard specifies n_i possible nominal frequencies then the set F defined as... –.

Column 12, Equation (15) reads

$$y_j^{ave}(n) = \frac{1}{N} \sum_{l=0}^{N-1} y_{dist}(n + l \cdot nf_j) \quad n = 0, \dots, nf_j$$

$$n=0, \dots, nf_j$$

and should read

$$- y_j^{ave}(n) = \frac{1}{N} \sum_{l=0}^{N-1} y_{dist}(n + l \cdot nf_j) \quad n = 0, \dots, nf_j -$$

Column 13, Equation (19) reads, “ $y_{id_i}(n) = s_j^s(n) * h_j(n)$ ” and should read

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$$y_{isi_j}(n) = s_j^s(n) * h_j(n) + \sum_m s_m(n) * h_m(n)$$

$$w_j(n) = y_{isi_j}(n) + v(n)$$

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and should read

$$y_{isi_i}(n) = s_j^r(n) * h_j(n) + \sum_m s_m(n) * h_m(n)$$

$$w_j(n) = y_{isi_j}(n) + v(n)$$

Column 13, line 41 reads, "...contribution of the sequence of known symbols $s_s^j(0)$..." and should read – ...contribution of the sequence of known symbols $s_j^s(0)$... –.

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Column 16, Equation (31), lines 36-39 read, " $y(k) - a_1 y(k-1) - \dots - a_m y(k-m) = b_0 s(k) + b_1 s(k-1) + \dots + b_m s(k-m)$..." and should read – $y(k) - a_1 y(k-1) - \dots - a_m y(k-m) = b_0 s(k) + b_1 s(k-1) + \dots + b_m s(k-m)$ –.

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Column 19, line 58 reads, "...estimated channel h ;" and should read – ...estimated channel \hat{h} ; –.

Column 20, line 20 reads, "...091710.579 titled "Method and Apparatus for Mitigation of..." and should read – ...09/710,579 titled "Method and Apparatus for Mitigation of... –.

Column 23, Claim 36, line 1 reads, "The method according to claim 29, wherein the..." and should read – The method according to claim 19, wherein the... –.

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Claim No. 41 was omitted in the issued patent, however according to the Supplemental Notice of Allowance dated June 9, 2005, claim 59 should be included and that the claims are numbered 1-41. Applicant requests the following be added:

Column 24, Claim 41, add – 41. An article of manufacture comprising a program storage medium readable by a computer and tangibly embodying at least one program of instruction executable by said computer to perform a method of characterization of an interference source of a communication signal in a communication system, the method comprising:

- estimating the interference signal transmission rate comprising:
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 - and
 - detecting harmonic components of the communication signal for each of the plurality of frequency regions;
- performing a service type identification; and
- estimating a channel impulse response of the interference signal. –

Please send the certificate to:

Joseph R. Jordan, Esq.
Wood, Herron & Evans, L.L.P.
2700 Carew Tower
Cincinnati, Ohio 45202

Since all of the above errors are due to typos made by the USPTO, a check for the correction has not been included, however, if there is any further charge or credit due, please use Deposit Account No. 23-3000.

Respectfully submitted,

WOOD, HERRON & EVANS, L.L.P.

By: 

Joseph R. Jordan, Reg. No. 25,686

WOOD, HERRON & EVANS, L.L.P.
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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,970,415

DATED : November 29, 2005

INVENTOR(S) : Cecilia Gabriela Galarzaz, et al.

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